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CENTRAL FAX CENTER  
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IN THE CLAIMS

Claims 1-4 (canceled)

5. (new) An electronic toothbrush comprising:  
a brush head portion comprising a bristle portion, to be inserted into an oral cavity, for brushing teeth;  
a holder portion to be exposed outside the oral cavity;  
an n-type semiconductor comprising  $\text{TiO}_2$  and which receives external light; and  
a battery, wherein said battery is a solar battery having an output of more than 0.5 V and less than 3.0 V, connected only to said n-type semiconductor such that said n-type semiconductor is connected to a negative pole of said solar battery, and superimposes an electrical potential on said n-type semiconductor in order to synergically enhance a photocatalytic effect of said n-type semiconductor.
6. (new) The electronic toothbrush according to claim 5, wherein said  $\text{TiO}_2$  is an anatase-type crystal.
7. (new) An electronic brush comprising:  
a brush head portion comprising a bristle portion;  
an n-type semiconductor comprising  $\text{TiO}_2$  and which receives external light; and  
a battery, wherein said battery is a solar battery having an output of more than 0.5 V and less than 3.0 V, connected only to said n-type semiconductor such that said n-type semiconductor is connected to a negative pole of said solar battery, and superimposes an electrical potential on said n-type semiconductor in order to synergically enhance a photocatalytic effect of said n-type semiconductor.
8. (new) The electronic brush according to claim 7, wherein said  $\text{TiO}_2$  is an anatase-type crystal.